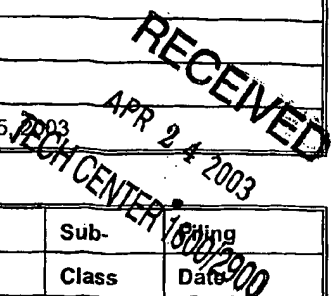
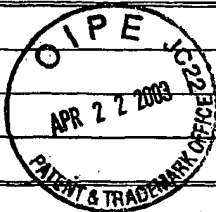


INFORMATION DISCLOSURE CITATION

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US PATENT DOCUMENTS

Examiner's	Document				Sub-	
Initial	Number	Date	Name	Class	Class	Date
QN	*5,487,992	1/30/96	Capecchi et al.	435	172.3	6/28/93
	*5,434,340	7/18/95	Krimpenfort et al.	800	2	7/27/92
	*5,814,318	9/29/98	Lonberg et al.	424	184.1	7/22/93
	*5,859,307	1/12/99	Mombaerts et al.	800	2	6/7/94
QN	*4,873,191	10/10/89	Wagner et al.	435	172.3	8/18/86

OTHER DOCUMENTS

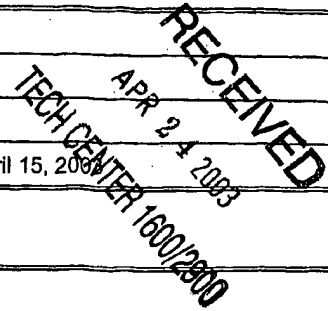
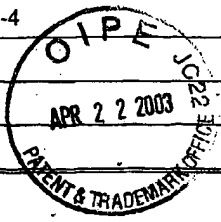
Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
QN	**Ausubel, F. et al., ed. Current Protocols in Molecular Biology, Greene Publishing and Wiley Interscience, New York, 1987.
	*Antoine, Jean-Claude et al., « H-2M molecules, like MHC class II molecules, are targeted to parasitophorous vacuoles of Leishmania-infected macrophages and internalized by amastigotes of L. amazonensis and L. mexicana, » Journal of Cell Science, vol. 112, pp. 2559-2570, 1999.
	*Bhatia, Mickie et al., « Purification of primitive human hematopoietic cells capable of repopulating immune-deficient mice, » Proc. Natl. Acad. Sci., U.S.A., vol. 94, pp. 5320-5325, May, 1997.
	*Bix, Mark et al., « Rejection of class I MHC-deficient haemopoietic cells by irradiated MHC-matched mice, » Nature, vol. 349, pp. 329-331, January 24, 1991.
	*Bix, Mark et al., « Inefficient positive selection of T cells directed by haematopoietic cells, » Nature, vol. 359, pp. 330-333, September 24, 1992.
	*Bonaventure, P. et al., « Humanization of Mouse 5-Hydroxytryptamine _{1B} Receptor Gene by Homologous Recombination : In Vitro and In Vivo Characterization, » Molecular Pharmacology, vol 56, pp. 54-67, 1999.
	*Bradley, Allan et al., « Modifying the Mouse : Design and Desire, » BioTechnology, vol. 10, pp. 534-539, May, 1992.
	*Brouard et al., "Transplantation of stromal cells transduced with the human IL3 gene to stimulate hematopoiesis in human fetal bone grants in non-obese, diabetic-severe combined immunodeficiency mice," Database Medline 'Online' (Accession No. 1998328137) US Natl. Lib. Of Med. (1998) Leukemia, 12 (7) 1128-35 (XP-002157437) ABSTRACT
	*Bleich, M. et al., «Pflugers Arch-Eur. J. Physiol., vol. 438, pp. 245-254, 1999.
	*Bock, Thomas et al., « Improved Engraftment of Human Hematopoietic Cells in Severe Combined Immunodeficient (SCID) Mice Carrying Human Cytokine Transgenes, » Journal of Experimental Medicine, vol. 182, pp. 2037-2043, December, 1995.
QN	*Brinster, Ralph L. et al., « Factors affecting the efficiency of introducing foreign DNA into mice by microinjecting eggs, » Proc. Natl. Acad. U.S.A., vol. 82, pp. 4438-4442, July, 1985.

Examiner	Date Considered
<i>Quang Nguyen</i>	12/22/03

Examiner: Initial ☒ for notice considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket N .: GC589-4	Serial No.: 09/938,689
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OTHER DOCUMENTS

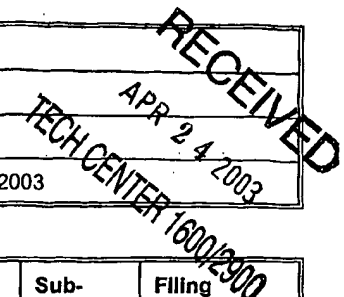
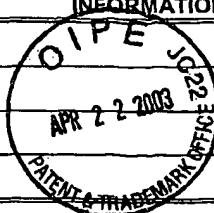
Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
QW	*Capecci, Mario R., « Altering the Genome by Homologous Recombination, » Science, vol. 244, pp. 1288-1292, June 16, 1989.
	*Cashman et al., "Human growth factor-enhanced regeneration of transplantable human hematopoietic stem cells in nonobese diabetic/severe combined immunodeficient mice," Database Medline 'Online! (Accession No. 1999102377) US Natl. Lib. Of Med. (1999) Blood 93 (2) 481-7 (XP-002157436) ABSTRACT
	*Colas, G. et al., « The Xenotransplantation of Goat and Human Hematopoietic Cells to Sheep Fetuses, » Transplantation, vol. 67, no. 7, pp. 984-990, April 15, 1999.
	*Cuzzocrea, Salvatore et al., « Role of interleukin-6 in a non-septic shock model induced by zymosan, » European Cytokine Network, vol. 10, issue 2, pp.191, June, 1999.
	*Dao et al., "Immunodeficient mice as models of human hematopoietic stem cell engraftment," Current Opinion in Immunology (1999) 11 (5) 532-7, ref. 49, pg. 533, col. 2, line 3-14 (XP-000972857)
	*Dao et al., "Long-term cytokine production from engineered primary human stromal cells influences human hematopoiesis in an in vivo xenograft model," Database Medline 'Online! (Accession No. 1998066277) US Natl. Lib. Of Med. (1997) Stem Cells 15 (6) 443-54 (XP-002157438)
	*Dick, John E. et al., « Assay of Human Stem Cells by Repopulation of NOD/SCID Mice, » Stem Cells, vol. 15, suppl. 1, pp. 199-203, 1997.
	*Evans, M.J. et al., « Establishment in culture of pluripotential cells from mouse embryos, » Nature, vol. 292, July 9, 1981.
	*Gossler, Achim et al., « Transgenesis by means of blastocyst-derived embryonic stem cell lines, »Proc. Natl. Acad. Sci., USA, vol. 83, pp. 9065-9069, December, 1986.
	*Gubler, Ueli et al., « A simple and very efficient method for generating cDNA libraries, » Gene, vol. 25, pp. 263-269, 1983.
	*Haber, James E., « DNA recombination : the replication connection, » Trends, Biochem. Sci., vol. 24, pp. 271-275, July, 1999.
	*Harkki, A et al., « A Novel Fungal Expression System : Secretion of Active Calf Chymosin from the Filamentous Fungus Trichoderma Reesei, » Bio/Technology, vol. 7, pp. 596-603, June, 1989.
	*Hauser, Wolfgang et al., « Megakaryocyte hyperplasia and enhanced agonist-induced platelet activation in vasodilator-stimulated phosphoprotein, »Proc. Natl. Acad. Sci. USA, vol. 96, pp. 8120-8125, July, 1999.
	**Hogan, Christopher J. et al., « Manipulating the Mouse Embryo, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, 1986.
	*Hogan, Christopher J. et al., « Multilineage engraftment in HOD/LtSz-scid/scid mice from mobilized human CD34+ peripheral blood progenitor cells, » Biology of Blood and Marrow Transplantation, vol. 3, pp. 236-246, 1997.
QW	*Hogan, Christopher J. et al., « Engraftment and Development of Human CD34+-Enriched Cells from Umbilical Cord Blood in NOD/LtSz-scid/scid Mice, Blood, vol. 90, no. 1, pp. 85-96, July 1, 1997.

Examiner	Date Considered
	12/22/03

Examiner: Initial if reference considered, wh ther r not citation is in conformance with MPEP 609; draw line through citation if n t in c nformance and not c nsidered. Include copy of this f rm with next communication to applicant. PTO-1449

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US PATENT DOCUMENTS

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Initial	Number	Date	Name	Class	Class	Date

FOREIGN PATENT DOCUMENTS

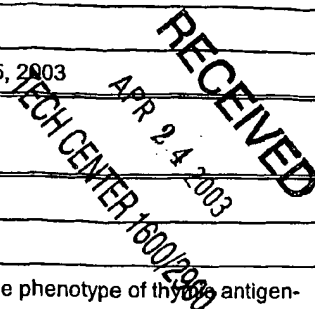
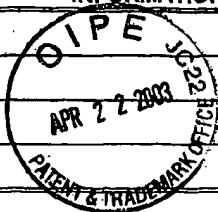
Examiner's	Document				Sub-	Translation
Initials	Number	Date	Country	Class	Class	Yes/No

OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
QW	*Hugo, Patrice et al., « Fibroblasts can induce thymocyte positive selection in vivo, » Proc. Natl. Acad. Sci., USA, vol. 90, pp. 10335-10339, November, 1993.
	*Jaenisch, Rudolf, « Germ line integration and Mendelian transmission of the exogenous Moloney leukemia virus, » Proc. Natl. Acad. Sci. USA, vol. 73, no. 4, pp. 1260-1264, April, 1976.
	*Jaenisch, Rudolf, « Transgenic Animals, » Science, vol. 240, pp. 1468-1474, 1988.
	*Jahner, Detlev et al., « Insertion of the bacterial gpt gene into the germ line of mice by retroviral infection, » Proc. Natl. Acad. Sci. USA, vol. 82, pp. 6927-6931, October, 1985.
	*Jahner, Detlev et al., « De novo methylation and expression of retroviral genomes during mouse embryogenesis, » Nature, vol. 298, pp. 623-628, August 12, 1982.
	*Joyner, Alexandra L. et al., « Production of a mutation in mouse En-2 gene by homologous recombination in embryonic stem cells, » Nature, vol. 338, pp. 153-156, March 9, 1989.
	*Kapp, Ursula et al., « Treatment of Non-Obese Diabetic (NOD)/Severe-Combined Immunodeficient Mice (SCID) with flt3 Ligand and Interleukin-7 Impairs the B-Lineage Commitment of Repopulating Cells after Transplantation of Human Hematopoietic Cells, » Blood, vol. 92, no. 6, pp. 2024-2031, September 15, 1998.
	*Keown, Wayne A. et al., « Methods for Introducing DNA into Mammalian Cells, » Methods in Enzymology, vol. 185, pp. 527-537, 1990.
	*Kim, Hyung-Suk et al., « Recombinant fragment assay for gene targetting based on the polymerase chain reaction, » Nucleic Acid Res., vol. 16, pp. 8887-8903, 1988.
	*Lapidot, Tsvee et al., « Immune-deficient SCID and NOD/SCID mice models as functional assays for studying normal and malignant human hematopoiesis, » J. Mol. Med., vol. 75, pp. 664-673, 1997.
	*Longo, Dan L. et al., « Early Appearance of Donor-Type Antigen-Presenting Cells in the Thymuses of 1200 R Radiation-Induced Bone Marrow Chimeras Correlates with Self-Recognition of Donor I Region Gene Products, » The Journal of Immunology, vol. 130, no. 6, June, 1983.
an	*Longo, Dan L. et al., « Bone marrow-derived thymic antigen-presenting cells determine self-recognition of Ia-restricted T lymphocytes, » Proc. Natl. Acad. Sci., USA, vol. 82, pp. 5900-5904, September, 1985.
Examiner	Date Considered
<i>[Signature]</i>	12/22/03
Examiner: Initial if for notice considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. PTO-1449	

INFORMATION DISCLOSURE CITATION

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OTHER DOCUMENTS

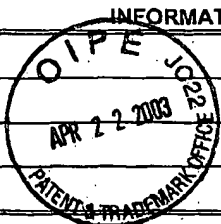
Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
QW	*Longo, Dan L. et al., « T-cell specificity for H-2 and Ir gene phenotype correlates with the phenotype of thymic antigen-presenting cells, » Nature, vol. 287, pp. 44-46, September 4, 1980.
	*Mansour, Suzanne L. et al., « Disruption of the proto-oncogene int-2 in mouse embryo-derived stem cells : a general strategy for targeting mutations to non-selectable genes, » Nature, vol. 336, pp. 348-352, November 24, 1988.
	**Markie, ed., Methods in Molecular Biology, vol. 54, 1997.
	*Markowitz, Jay S. et al., « Class II-positive hematopoietic cells cannot mediate positive selection of CD4 ⁺ T lymphocytes in class II-deficient mice, » Proc. Natl. Acad. Sci., USA, vol. 90, pp. 2779-2783, April, 1993.
	*Mazurier et al., "A novel immunodeficient mouse model—RAG2 x common cytokine receptor gamma chain double mutants—requiring exogenous cytokine administration for human hematopoietic stem cell engraftment," J. of Interferon and Cytokine Research (1999) 19:533-541 (XP-000972854)
	*Mertsching, Elisabeth et al., « Phenotypic and functional analysis of B lymphopoiesis in interleukin-7-transgenic mice : expansion of pro-pre-B cell number and persistence of B lymphocyte development in lymph nodes and spleen. « Eurl. J. Immunol., vol. 26, pp. 28-33, 1996.
	*Molotkov, Andrei et al., « Tumor growth and food intake in Interleukin-6 gene knock-out mice, » Cancer Letters, vol. 132, pp. 187-192, 1998.
	*Mombaerts et al., "RAG-1-deficient Mice have no mature B and T lymphocytes," Cell (1992) Vol. 68, pp. 869-877 (XP002081285)
	*Monaco, Anthony P. et al., « YACs, BACs, PACs and MACs : artificial chromosomes as research tools, « Trends Biotechnol., vol. 12, pp. 280-286, 1994.
	*Nandi, Asit K. et al., « Regulated expression of genes inserted at the human chromosomal β -globin locus by homologous recombination, » Proc. Natl. Acad. Sci. USA, vol. 85, pp. 3845-3849, June, 1988.
	*Oka et al., "An interleukin-6 transgene expressed in B lymphocyte lineage cells overcomes the T cell-dependent establishment of normal levels of switched immunoglobulin isotypes," Database Chemabs 'Online Chem. Abst. Serv. (1995) Eur. J. Immunol. 25(5), 1332-7 (XP-002157439)
	**Paul ed. Fundamental Immunology, 4th edition, Lippincott-Raven Press, 1999.
	*Pawlowski, Tomasz et al., « Positive selection of T lymphocytes on fibroblasts, » Nature, vol. 364, pp. 642-645, August 12, 1993.
	*Perry, Anthony et al., « Mammalian Transgenesis by Intracytoplasmic Sperm Injection, » Science, vol. 284, pp. 1180-1183, May 14, 1999.
	*Pflumio, Françoise et al., « Phenotype and Function of Human Hematopoietic Cells Engrafting Immune-Deficient CB17-Severe Combined Immunodeficiency Mice and Nonobese Diabetic-Severe Combined Immunodeficiency Mice After Transplantation of Human Cord Blood Mononuclear Cells, » Blood, vol. 88, no. 10, pp. 3731-3740, November 15, 1996.
QW	*Ragoussis, Giannis et al., « Mitotic recombination of yeast artificial chromosomes, » Nucleic Acids Research, vol. 20, no. 12, pp. 3135-3138, 1992.

Examiner	Date Considered
<i>[Signature]</i>	12/22/03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. PTO-1449

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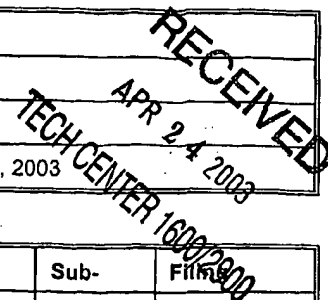
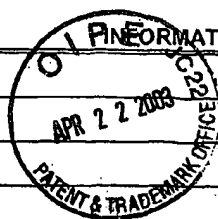


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OTHER DOCUMENTS

Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.
QW	*Ramirez, Manuel et al., « Mature human hematopoietic cells in donor bone marrow complicate interpretation of stem/progenitor cell assays in xenogeneic hematopoietic chimeras, » Experimental Hematology, vol. 26, pp. 332-344, 1998.
	*Ramsay, Michele, « Yeast Artificial Chromosome Cloning, » Molecular Biotechnology, vol. 1, pp. 181-201, 1994.
	*Rich, Benjamin E. et al., « Cutaneous Lymphoproliferation and Lymphomas in Interleukin 7 Transgenic Mice, » J. Exp. Med., vol. 177, pp. 305-316, February, 1993.
	**Sambrook et al., Molecular Cloning : A Laboratory Manual, 2nd ed., vols. 1-3, Cold Spring Harbor Laboratory, 1989.
	*Shepherd, Nancy S. et al., « The P1 Vector System for the Preparation and Screening of Genomic Libraries, » Genetic Engineering, vol. 16, pp. 213-227, 1994.
	*Shinkai et al., "Rag-2-deficient mice lack mature lymphocytes owing to inability to initiate V(D)J rearrangement," Cell (1992) Vol. 68, no. 5, pp. 855-867 (XP-000604771)
	*Stewart, Colin L. et al., « Expression of retroviral vectors in transgenic mice obtained by embryo infection, » The EMBO Journal, vol. 6, no. 2, pp. 383-388, 1987.
	*Struble, Robert G. et al., « Apolipoprotein E. Immunoreactivity in human and mouse olfactory bulb, » Neuroscience Letters, vol. 267, pp. 137-140, 1999.
	*Thomas, Kirk R. et al., « Site-Directed Mutagenesis by Gene Targeting In Mouse Embryo-Derived Stem Cells, » Cell, vol. 51, pp. 503-512, November 6, 1987.
	*Thompson, Simon et al. « Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells, » Cell, vol. 56, pp. 313-321, January 27, 1989.
	**Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology—Hybridization with Nucleic Acid Probes, Elsevier, New York, 1993.
	**Tsuji et al. ed., HLA 1991, Oxford University Press, 1992.
	*Uehira, Masahiro et al., « Immunologic Abnormalities Exhibited in IL-7 Transgenic Mice with Dermatitis, » The Journal of Investigative Dermatology, » vol. 110, no. 5, pp.740-745, May 5, 1998.
QW	*Valenzona, Homer O. et al., « Prelymphomatous B cell hyperplasia in the bone marrow of interleukin-7 transgenic mice : Precursor B cell dynamics, microenvironmental organization and osteolysis, » Experimental Hematology, vol. 24, pp. 1521-1529, 1996.
Examiner	Date Considered
<i>[Signature]</i>	12/22/03
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. PTO-1449	

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Examiner's	Document				Sub-	Filing
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FOREIGN PATENT DOCUMENTS

Examiner's	Document				Sub-	Translation
Initials	Number	Date	Country	Class	Class	Yes/No

OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
QW	*Van der Putten, Herman et al., « Efficient insertion of genes into the mouse germ line via retroviral vectors, » Proc. Natl. Acad. Sci., USA, vol. 82, pp. 6148-6152, September, 1985.
I	*Vormoor, Josef et al., « Immature Human Cord Blood Progenitors Engraft and Proliferate to High Levels in Severe Combined Immunodeficient Mice, » Blood, vol. 83, no. 9, pp. 2489-2497, May 1, 1994.
I	*Wang, Jean C.Y. et al., « Primitive Human Hematopoietic Cells are Enriched in Cord Blood Compared with Adult Bone Marrow or Mobilized Peripheral Blood as Measured by the Quantitative in Vivo SCID-Repopulating Cell Assay, » Blood, vol. 89, no. 11, pp. 3919-3924, June 1, 1997.
	*Watanabe, Mamoru et al., « Interleukin 7 Transgenic Mice Develop Chronic Colitis with Decreased Interleukin 7 Protein Accumulation in the Colonic Mucosa, » J. Exp. Med., vol. 187, no. 3, pp. 389-402, February 2, 1998.
QW	*Williams, D.A., « Embryonic stem cells as targets for gene transfer : a new approach to molecular manipulation of the murine hematopoietic system, » Bone Marrow Transplantation, vol. 5, pp. 141-144, 1990.
QW	*Copy of the International Search Report
Examiner	Date Considered
<i>[Signature]</i>	12/22/03
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. PTO-1449	